

App. No. 10/724,742 Ex'r E. File; Group Art Unit 2611 Reply to Office Action of January 17, 2007

NEW DRAWING SHEET

Reconstructing simulated input data symbols $(x'_k[n])$ that simulate the original data symbols $(X_k[n])$

Delaying the actual received data symbols $(R_k[n])$ such that the delayed actual received data symbols $(Q_k[n])$ are synchronous to the simulated input data symbols $(x'_k[n])$

Calculating a channel response estimate $(W_k[n])$ of one subchannel k based on said delayed actual received data symbols $(Q_k[n])$ and said simulated input data symbols $(x'_k[n])$ according to the LMS algorithm

Estimating virtual received data symbols $(Y_k[n])$ based on said channel response estimate $(W_k[n])$ and the simulated input data symbol $(x'_k[n])$

Calculating a different quantity $(e_k[n])$ between the delayed actual received data symbol $(Q_k[n])$ and the estimated virtual received data symbols $(Y_k[n])$ to represent the channel noise of said subchannel k.

NEW DRAWING SHEET

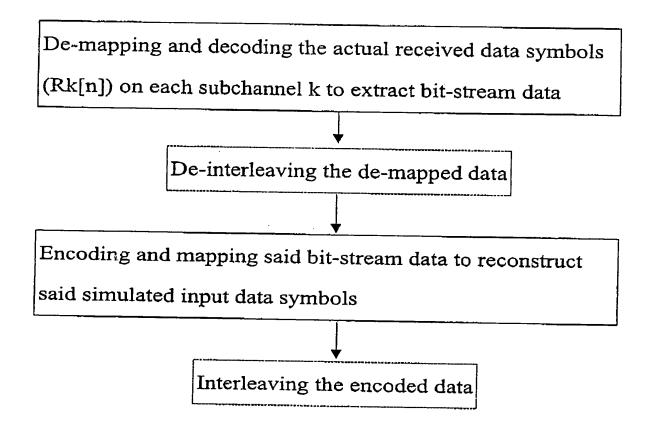


FIG. 9